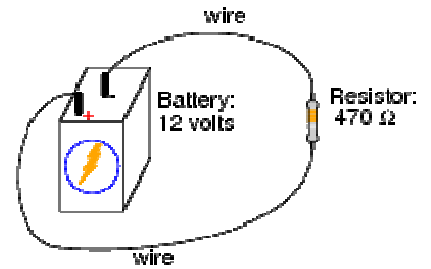


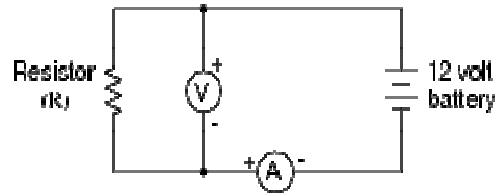
Ohm's Law Worksheet

1. Calculate the amount of current (I) that will go through the resistor in this circuit. Show your work.



2. What is the value (Resistance) of this resistor, in *ohms* (Ω)? Show your work.

Voltmeter Reading = 11.5 V
Ammeter Reading = 1.3 A



3. A CD player with a resistance of 40 ohms has a current of 0.1 amps flowing through it. Three 3-cell batteries (connected in series) supply power to the CD player. Sketch the circuit diagram and calculate how many volts supply the CD player. Show your work.

4. A 110 volt wall outlet supplies power to a strobe light with a resistance of 2200 ohms. How much current is flowing through the strobe light? Show your work.

5. A 120-volt power source supplies a lamp with a resistance of 192 ohms. What is the current flow of the circuit?

6. What is the resistance of the circuit conductors when the potential difference across the conductors is 3 volts and the current flowing through the conductors is 100 amperes?